

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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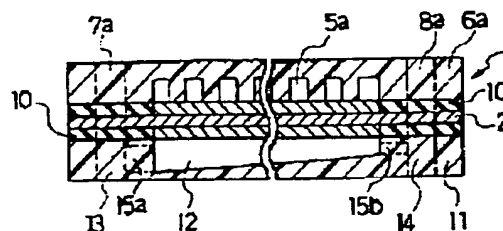
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TITLE : FUEL CELL



**ABSTRACT :** PROBLEM TO BE SOLVED: To prevent the flooding of water on fuel electrode side and stabilize the cell performance by forming a gas feed groove facing the fuel electrode of the separator of a cell so that the depth is reduced from the gas inlet part toward the gas outlet part.

**SOLUTION:** A separator 11 provided on the fuel electrode side of a cell 1 has manifolds 13, 14, a gas feed groove 12 facing a fuel electrode, and gas passages 15a, 15b for allowing the gas feed groove 12 to communicate with the manifolds 13, 14. The gas feed groove 12 is formed so that the depth is reduced from a gas inlet part on the gas passage 15a side to a gas outlet part on the gas passage 15b side. The groove depth of the gas outlet part is preferably 0.2-0.8 times the gas inlet part. A fuel gas is introduced from the fuel gas feed manifold 13 into the fuel gas feed groove 12 through the gas passage 15a. Thereafter, the fuel gas is discharged from the fuel gas feed groove 12 to the fuel gas discharge manifold 14 through the other gas passage 15b.

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